ABSTRACT OF THE DISCLOSURE

A vehicle navigation system includes a vehicle displacement sensor comprising a wireless transmitter generating a signal indicating rotational displacement of a vehicle component. A complementary wireless transmitter receives the signal from the transmitter. A computer calculates vehicle speed or displacement based upon the rotational speed or displacement of the vehicle component. In a preferred embodiment, the transmitter is secured to a wheel of the vehicle and generates an RF signal upon each revolution of the wheel.

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